

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P293903

Luminaire Tested: **24GR-LD5-72-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6563.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

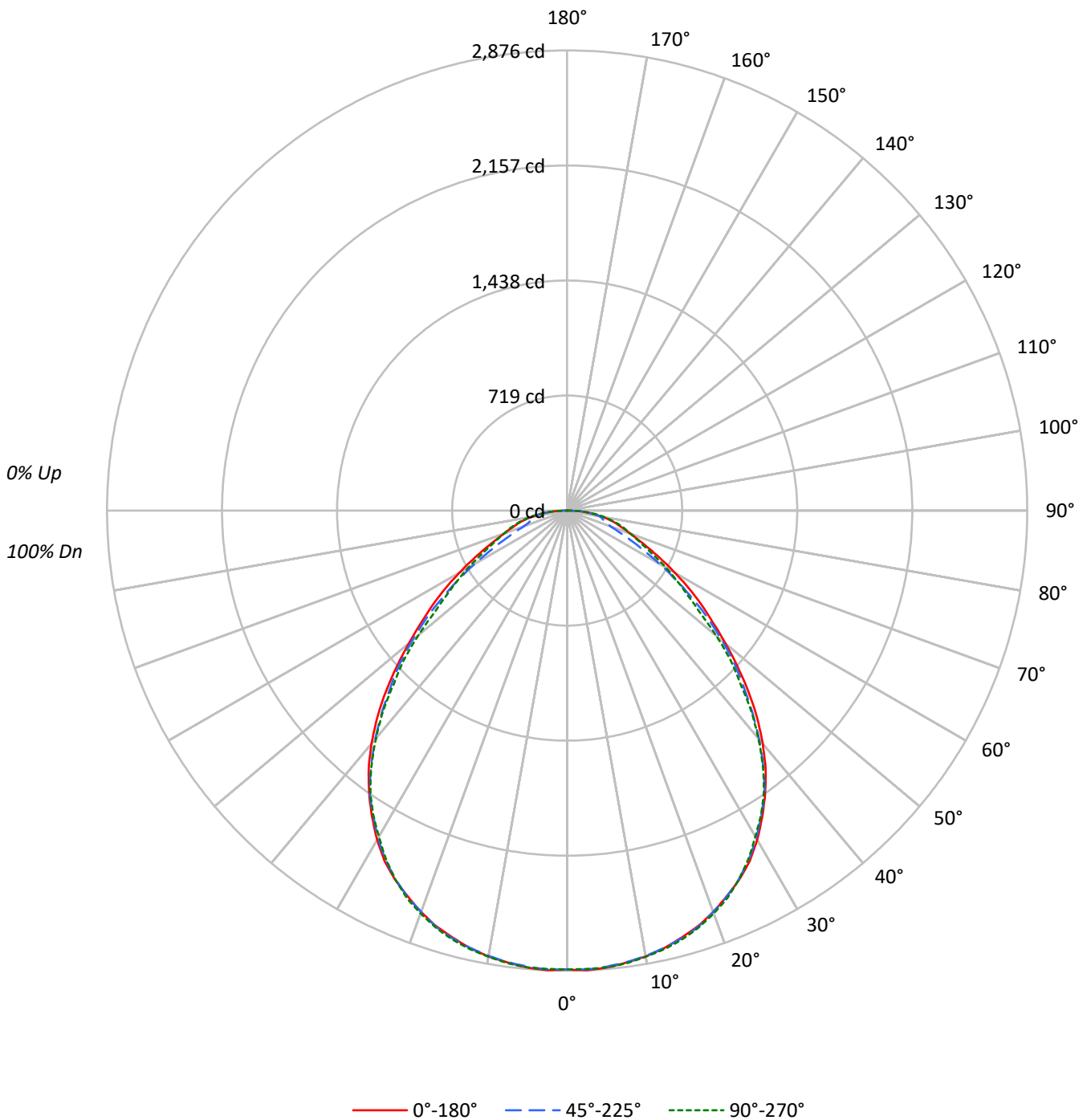
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3859	3859	3859
5°	3872	3864	3871
10°	3866	3861	3868
15°	3848	3855	3865
20°	3822	3822	3836
25°	3779	3771	3774
30°	3690	3671	3654
35°	3545	3535	3521
40°	3339	3278	3264
45°	3055	2971	2916
50°	2700	2647	2544
55°	2402	2238	2152
60°	2091	1791	1920
65°	1806	1389	1698
70°	1648	1136	1643
75°	1660	1224	1746
80°	1729	1595	1840
85°	1802	1897	2039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	4.1
10°-20°	780.2	11.9
20°-30°	1167.9	17.8
30°-40°	1334.5	20.3
40°-50°	1206.5	18.4
50°-60°	868.0	13.2
60°-70°	503.2	7.7
70°-80°	298.5	4.5
80°-90°	132.2	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2220.1	33.8
0°-40°	3554.6	54.2
0°-60°	5629.1	85.8
0°-90°	6563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6563.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2867	2863	2861	2856	2866	272
15°	2762	2768	2768	2764	2775	780
25°	2545	2542	2540	2535	2542	1170
35°	2158	2148	2152	2126	2144	1346
45°	1605	1578	1561	1547	1533	1233
55°	1024	1004	954	930	917	916
65°	567	504	436	487	533	573
75°	319	267	236	291	336	338
85°	117	126	123	141	132	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2867.8	2867.8	2867.8	2867.8	2867.8
2.5°	2876.0	2865.8	2870.9	2867.8	2866.8
5°	2866.8	2862.7	2860.6	2856.5	2865.8
7.5°	2848.3	2845.3	2846.3	2847.3	2853.5
10°	2829.9	2824.8	2825.8	2827.9	2830.9
12.5°	2801.3	2798.2	2799.2	2801.3	2808.4
15°	2762.3	2767.5	2767.5	2764.4	2774.6
17.5°	2723.4	2722.4	2727.5	2718.3	2732.7
20°	2669.2	2670.2	2669.2	2670.2	2679.4
22.5°	2607.7	2612.9	2609.8	2609.8	2620.0
25°	2545.3	2542.2	2540.2	2535.1	2542.2
27.5°	2470.5	2464.4	2459.3	2449.0	2454.2
30°	2375.3	2376.4	2363.0	2353.8	2351.8
32.5°	2268.9	2268.9	2256.6	2249.4	2255.5
35°	2158.3	2148.0	2152.1	2125.5	2143.9
37.5°	2038.5	2022.1	2012.9	2003.7	2009.8
40°	1901.3	1879.8	1866.5	1848.0	1858.3
42.5°	1756.9	1730.3	1713.9	1700.6	1704.7
45°	1605.4	1577.8	1561.4	1547.0	1532.7
47.5°	1445.7	1428.3	1420.1	1401.7	1385.3
50°	1290.1	1283.9	1264.5	1249.1	1215.3
52.5°	1147.7	1142.6	1111.9	1086.3	1043.3
55°	1023.8	1004.4	954.2	929.7	917.4
57.5°	897.9	866.2	805.8	802.7	810.9
60°	777.1	738.2	665.5	681.9	713.6
62.5°	667.5	609.2	539.6	578.5	616.4
65°	567.2	503.7	436.2	487.4	533.4
67.5°	484.3	420.8	351.2	419.8	473.0
70°	418.8	354.3	288.7	367.6	417.7
72.5°	364.5	306.1	251.9	326.6	378.8
75°	319.4	267.2	235.5	290.8	335.8
77.5°	274.4	232.4	225.2	259.0	286.7
80°	223.2	203.7	205.8	227.3	237.5
82.5°	166.9	167.9	173.0	190.4	186.3
85°	116.7	125.9	122.9	141.3	132.1
87.5°	64.5	70.6	66.6	80.9	72.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)